

**Notice of Allowability**

Application No.

09/740,917

Examiner

Russell Frejd

Applicant(s)

SWOBODA, GARY L.

Art Unit

2128

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to applicant's amendment received on 22-September-2004.
2. ☒ The allowed claim(s) is/are 1 and 2.
3. ☒ The drawings filed on 17 April 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 8.2.2001
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

*Russell Frejd*  
**RUSSELL FREJD**  
**PRIMARY EXAMINER**

**In re Application of: Swoboda**

***Allowance of Application # 09/740,917***

1. The following communication is in response to applicant's Amendment , received 22-September-2004.

***Reasons for Allowance***

2. The following is an Examiner's Statement of Reasons for the indication of allowable subject matter. The instant application is directed to a non-obvious improvement over the invention in U.S. Patent No. 6,545,549, issued to Swoboda. The improvement comprises a debug and emulation system, including: a target device embodied in a single integrated circuit, the target device including an operation circuit operating in synchronism with a function clock circuit, triggering a trace trigger circuit upon detection of a predetermined condition within the operation circuit, an oscillator clock which may be synchronized with the function clock or a reference clock, a FIFO buffer for receiving the trace data via a trace port, operating the trace trigger circuit and FIFO input by the function clock, operating the FIFO output and the trace port output by the oscillator clock, and an emulator coupled to the target device for controlling the clock selection. This patentable distinction is included in independent claim no. 1. The art of record, either individually or in combination, fails to teach, suggest, or render obvious the useful, concrete and tangible <operation of the trace all on the function clock or split between the function clock and the reference clock, wherein the trace data is sensed in synchronism with the oscillator clock> having the corresponding structure which is disclosed in the specification and equivalents thereof at least at page 16, line 2 through page 67, line 13, and Figures 1-13. In

In re Application of: Swoboda

view of the foregoing, the claims of the present application are found to be patentable over the prior art.

***Response Guidelines***

3. Any comments considered necessary by applicant **MUST** be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should clearly be labeled "Comments on Statement of Reasons for Allowance".

4. **Any response to the Examiner in regard to this allowance should be**

**directed to:** Russell Frejd, telephone number (571) 272-3779, Monday-Friday from 0530 to 1400 ET, or the examiner's supervisor, Jean Homere, telephone number (571) 272-3780. Any inquiry of a general nature should be directed to the Tech Center 2100 receptionist, telephone number (TBD). The TC 2100 Customer Service telephone number is (TBD).

**mailed to:** Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:** (571) 273-3779

*Hand-delivered responses should be brought to 220 South 20<sup>th</sup> Street, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA., 22202.*

**Date:** 22-November-2004

  
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**RUSSELL FREJD  
PRIMARY EXAMINER**